THE STAF® SYSTEM

SELF-BORED TUBE SYSTEM
FOR MÉNARD PRESSUREMETER TESTS

THE +

- The most qualitative drilling for pressuremeter tests
- Conformed to the STDTM specifications spelled out in the ISO 22476-4 standard

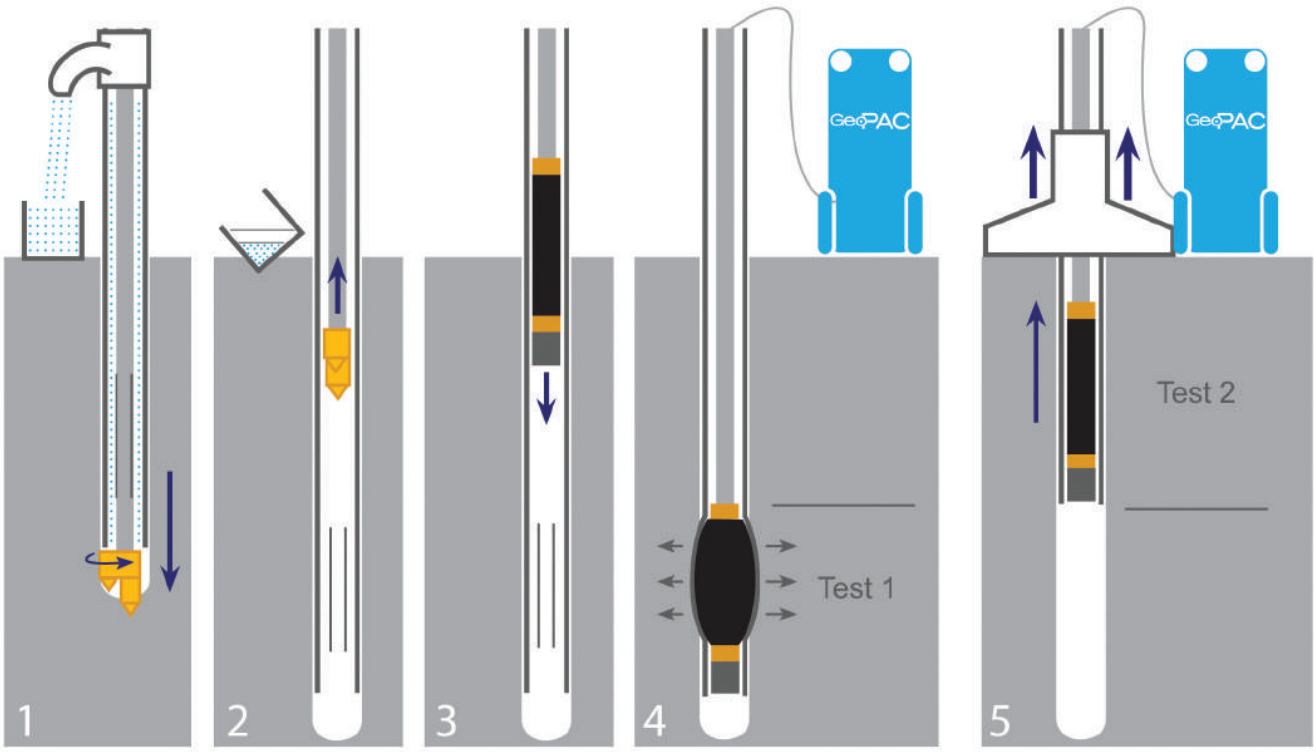
APPLICATIONS

- **Slotted Tube technique with inside Disintegrating Tool and Mud circulation (STDTM)**

THE PRINCIPLE

The drilling is realized by the eccentric tool followed by the tube column.
The slotted tube is placed while drilling, avoiding borehole walls remolding.

THE STAF® METHOD CAN BE USED WITH ALL KIND OF GEOTECHNICAL DRILLING RIGS, EQUIPPED WITH ROTARY AND TOP HYDRAULIC HAMMER.



IMPLEMENTATION

1. Drilling with the slotted tube and the STAF® bit according to the STDFTM method
The eccentric tool drills at the bottom of the tube, followed in the meantime by the slotted tube by reducing any wall disturbance.

2. Tool retrieval
The STAF® bit is pulled up with the internal drill string inside the tube, without any remolding of the borehole walls.

3. Probe positioning
Thanks to the locking device, the probe is perfectly located at the central level of the steel strips forming the slotted tube. The coaxial or twin lines are protected by the string of STAF® tube from any squeezing and pinching.

4. Execution of the first pressuremeter tests
The pressuremeter test is realized according to the ISO 22476-4, at the final depth

5. Next test and tubes extraction
Tests start from the deepest level and then pulled up to the next level thanks to a special pulling device

Data can be **directly processed** on our geotechnical software GeoVision® **through a USB key or 4G modem transfer**

STAF®
SELF-BORED TUBE SYSTEM FOR PRESSUREMETER

STAF® CASING

Based on 20 meters

Description	Reference	Quantity
Guide for STAF® casing	H6 0010035	1
Anvil spacer for STAF®	H6 0010040	1
Slurry circulation discharge pipe	H6 0010030	1
Upsetting tubing	H6 0010031	2
Driving head	H6 0010020	1
Casing Lg 1,22 m	H6 0010010	17
Casing Lg 0.3 m	H6 0010005	1
Slotted tube	H6 0010000	1
Starting casing tube lg 0.3 m	H6 0010015	1
Coupling box R38 x pin STAF® slotted casing	H6 0010100	1
Coupling box R38 x pin STAF® casing	H6 0010110	1
Manipulation loop for STAF® casing	H6 0010170	1
STAF® casing spanner	H6 0010175	1
Coupling pin STAF® casing x box 2"3/8 with flats	H6 0010180	1

Probe centering coupling for STAF®

STAF® BITS

Based on 20 meters

Description	Reference	Quantity
Coupling box R38 x R32box modified	H6 0010080	1
Rod R38 x lg 0.3 m	H1 02003802	1
Rod R32 x lg 1.5 m for STAF® (x1)	H6 0010073	1
Rod R32 x lg 1.22 m for STAF®	H6 0010075	17
R32 nipple for STAF®	H6 0010076	17
Pilot bit holder for STAF® equipment	H6 0010060	1
Pilot U-pin for STAF® equipment	H6 0010070	1
STAF® cross bit ø66mm	H6 0010050	1
STAF® button bit ø66mm	H6 0010055	1
R32 rod spanner	H1 09003201	1
R32 rod spanner long handle	H1 09003802	1
R38 rod spanner	H1 09003803	1
ø65 rod spanner for STAF® equipment	H6 0010140	1
R32 manipulation ring	M5 0900010	1

STAF® button bit

IMPLEMENTATION OF THE PRESSUREMETER PROBE

Based on 20 meters

Description	Reference	Quantity
Coupling pin 22 x box R38	H6 0010060	1
Rod ø9 x 22mm – length 1.22 m for STAF® equipment	H6 0010130	17
Coupling for 44mm probe x 22 mm rod box	A1 1454402	1
ø44 mm probe centering coupling for STAF®	H6 0010120	1
Wrench for ø22 mm rods	F5 09000302	2
ø22 rod manipulation ring	M5 0900011	1

EXTENSION KIT

Description	Reference	Quantity
Shoe casing lg 0,153 m STAF®	H6 0010016	1
Short casing lg 0,152 m STAF®	H6 0010018	1

EXTRACTION SYSTEM

Description	Reference	Quantity
Hydraulic Jack 15 T capacity for casing extraction	H6 0010160	1
Set of hose for hydraulic jack	H6 0010165	1
Foot clamp – big model	M3 0100000	1
Clamp for STAF® casing	M3 0200016	2
Pull up washer for STAF® system	H6 0010145	1
Base plate for the hydraulic jack	H6 0010150	1

STAF® is a patented technique and a registered trademark of Geomatech